MIG DHMb® Lining System
For exterior application

MIG-ESP® Exterior

- ✓ heating and cooling regulation (Infrared reflection)
- ✓ non-flammable - building material class A2
- ✓ bright facades through light reflection
- ✓ improving the durability of facades (UV-reflection)
- ✓ natural prevention against algae and moulds
- ✓ recommended for ecological, energy efficient renovation
- ✓ reducing CO_2 emissions

Product description

MIG-ESP® Exterior is an exterior coating based on the **MIG DHMb® Lining Technology** (DHMb® = Double Hybrid Membrane) according to DIN EN 13300.

MIG-ESP® Exterior can be applied with paint rollers, brushes or spraying units.

MIG-ESP® Exterior can be used with an appropriate primer on a variety of substrates in the entire outdoor area. **MIG-ESP® Exterior** is the finish coat for **MIG Therm M 65** and **MIG 262**. Further areas of application include renovations on all paint-bearing substrates and on old and new insulation facades. The **MIG-ESP®**- colour chart offers a wide range of colour choices.

Technical consulting service
Email: info@migpacific.com.au

Processing and substrate pretreatment

MIG-ESP® Exterior is fast-drying and odourless during application.
Before processing, stir the material mechanically for approx. 3 minutes. Cover all adjacent components well or protect against splashes.
Do not use in direct sunlight, rain or high relative air humidity.
Spread **MIG-ESP® Exterior** evenly with suitable rollers, brushes or appropriate spraying units. The nozzle size should be between 0.036" (0.91 mm) and 0.045" (1.04 mm) depending on use. Do **not** mix **MIG-ESP® Exterior** with other materials. When using rollers or brushes, a dilution with drinking water or **MIG-ESP® Sealing Primer** of max. 3 %, and when using spraying units, a dilution of max. 5 %, is recommended for better processing. The object and ambient temperature should not be below + 5 °C and not above + 35 °C during application. Shade from the sun whenever possible when exposed to summer temperatures. Surface drying can be achieved after only approx. 30 minutes. The dry-through time for each of

the two coating processes is approx. 24 hours under normal conditions (+ 20 °C/65 % relative air humidity). Lower temperatures and higher relative air humidity may extend the dry-through time.

The substrate must be dry, solid, free from dust and loose parts or release agents. For absorbent substrates, a priming coat with **MIG-ESP® Sealing Primer** is required. This consolidates the substrate and compensates for different absorption characteristics. For metal and concrete surfaces, cement fiber boards as well as contaminated, penetrating substrates we recommend **MIG-ESP® Special Primer** as a bonding agent.

A layer thickness of 0.40 mm is required to achieve the full effectiveness of the MIG DHMb® Lining Technology! When applying MIG-ESP® Exterior with a roller or a brush, experience has shown that two coats are necessary for the required layer thickness. When applying tinted MIG-ESP® Exterior, MIG-ESP® Exterior, White must be used as the first coat, followed by the second coat which is tinted.
Any structural defects or damages must be remedied before application!

Coating procedure

1.	**Substrate preparation**	Substrate must be dry, free from dust, loose parts and release agents
2.	**Apply primer**	Depending on substrate (see page 4, MIG DHMb® Lining System – Products → Primers), apply e.g. MIG-ESP® Sealing Primer or plaster strengthener. Allow to set for approx. 1 hour
3.	**Stir**	Stir MIG-ESP® Exterior with an electric stirrer for approx. 3 minutes until the texture is creamy, thixotropic
4.	**First coat**	Spread MIG-ESP® Exterior, White evenly **in a crosswise motion** and as a final step, roll off in one direction
5.	**Drying time**	24 hours drying time between both coating processes
6.	**Second coat**	Spread MIG-ESP® Exterior, White or tinted evenly **in a crosswise motion** and as a final step, roll off in one direction

Technical data

solvent-free, environmentally friendly and odourless
for longer open times (e.g. at high temperatures), MIG-ESP® Exterior can be diluted with MIG-ESP® Sealing Primer by up to 3 % or 5 % when using spraying units
water-repellent, microporous and non-film forming
building material class A2 (non-flammable), DIN 4102, Part 1 (May 1998)
highly water vapour permeable (sD -value 0.05 m ± 0.02 according to EN ISO 7783-2) equivalent to V1
water absorption w-value after 24 hours < 0.10 kg/m^{2}h$^{0.5}$ according to DIN EN 1062-3 (W3)
gloss grade: matt (DIN 53778)
pH-value 9.0 (± 1.0)
density 1.05 g/cm³ (± 0.05)
degree of reflection > 90 % for white coating
highly resistant to UV-A

Fire behavior

MIG-ESP® Exterior fulfils the requirements of building material class A2 for non-flammable building materials according to DIN 4102, part 1 (May 1998) with a coverage rate of 0.40 l/m2 on solid mineral substrates.

Test institute Hoch, Lerchenweg 1, D-97650 Fladungen, Test certificate PZ-Hoch-131357

UV and weather resistance

MIG-ESP® Exterior is extremely weather-resistant and UV-stable. This ensures a long-lasting facade hygiene (against soiling, algae infestation, etc.). All details can be found in the **test report no. 130608 - ILF Forschungs- und Entwicklungsgesellschaft Lacke und Farben mbH**. The high degree of reflection gives the buildings a long-lasting brilliance.

U-value Effect

Hygrothermal energy efficiency simulation **(WUFI® Pro)** can be performed on request.

Consumption

Depending on the type and porosity of substrate, approx. 0.40 l/m² with two coats on smooth surfaces.

Rough, structured or highly absorbent surfaces can increase consumption. Exact consumption quantities can be determined by creating test areas.

Cleaning

Clean tools thoroughly with water after use. The containers must be emptied completely and recycled.

Storage

At least 12 months shelf life from date of sale if stored dry, frost-free and cool under proper conditions in original sealed containers. Tinted goods must be processed within 3 months.

Packaging

5 / 15 l plastic buckets
1,000 l IBC

Customs tariff number

32099000

MIG DHMb® Lining System – Products

Primers
MIG-ESP® Sealing Primer
MIG-ESP® Special Primer
MIG-ESP® Primer quartz-filled

Plasters
MIG 262
MIG Therm M 65

Finish coats
MIG-ESP® Interior
MIG-ESP® Interior Anti-Microbial
MIG-ESP® Exterior
MIG-ESP® Rooflect

Warranty

We offer a 10-year quality guarantee on **MIG-ESP® Exterior**. This warranty applies exclusively to the product applied to the surfaces by professional painters and not to the related services in compliance with our warranty conditions. An unbroken chain of evidence showing the correct application of the product must be provided.

For the warranty conditions form:

Legal information

The information in this publication is based on our current technical knowledge and experience. Due to the abundance of possible influences during the processing and application of our products, they do not release the user from his own tests and trials and are only general guidelines. A legally binding assurance of certain properties or suitability for a specific purpose cannot be derived from this. Any industrial property rights as well as existing laws and regulations must always be observed by the user on his own responsibility. With the publication of this data sheet, all previous data sheets lose their validity.

The innovative thin-layer insulation is a new state of the art and therefore cannot be tested with existing standards (the current state of technology)! MIG has developed a test method to calculate the correct U-value with the thin-layer insulation.